

## Asia Pacific Biodiversity Observation Network 12<sup>th</sup> Workshop

Program ver. January 22

**Date: January 22, 2021 (Friday)**

*\* Participants are kindly asked to double-check the time by themselves*

Country	Time zone	Opening Session I	Session II	Session III	Session IV
Japan, Korea, Palau	UTC +9	10:00 am	12:30pm	13:45	16:00
China, Philippines, Malaysia	UTC +8	9:00 am	11:30am	12:45	15:00
Thailand, Cambodia, Indonesia (Jakarta)	UTC +7	8:00 am	10:30am	11:45am	14:00
Nepal	UTC +5:45	6:45 am	9:15am	10:30am	12:45
UK (London)	UTC +0	1:00 am	3:30am	4:45am	7:00am
Canada (Montreal, Quebec)	UTC -5	20:00 (Jan 21)	22:30 (Jan 21)	23:45 (Jan21)	2:00am

<https://www.timeanddate.com/worldclock/>

<https://www.worldtimebuddy.com/>

### Venue: On-line

Access information to be announced later by emails and APBON website

( <http://www.esabii.biodic.go.jp/ap-bon/index.html> ).

### Background and objectives:

Asia Pacific Biodiversity Observation Network was established in 2009 (Yahara et al. 2014), and we are now moving to the next steps to address challenges in biodiversity observations and assessments in our region, based on our 10-year achievements (Takeuchi et al. *in review*).

The societal demands for the Earth observation have been increasing because of emerging environmental issues such as climate change and species extinction in both global and local scale. Our ecosystem and biodiversity monitoring activities as “Earth observation” and subsequent scientific analyses provide an essential data to understand the status, trends, and projection of the future earth system including under climate and societal change. Through the high-quality observation of biodiversity change, APBON will strive to provide scientific evidence to develop sound assessments and facilitate policy-making.

Regional networks, such as APBON, play an essential role in taking an initiative to gather, explore, and prioritize local issues and practices and link these over regions, scientific communities, and stakeholders. We cherish the bottom-up approaches and/or landscape-level approaches, which our members have used, as it matches with the scale of the biodiversity-issues and the goal setting to maximize the benefits to local people, regional ecosystems, and biodiversity. It also offers more opportunities to work with scientists and local stakeholders and facilitate problem-solving corporation using the available knowledge. Another target is to promote data sharing and data accessibility through and by strengthening the networking of the observation networks in local to AP regional scale and deliver our information and knowledge to global platforms (e.g., GEO BON). APBON plays a role as a “hub” to link the local, national, regional, and global needs of biodiversity observations, customizing observation designs and tools, and matching science-policy interface.

Now we reconvene at the 12<sup>th</sup> APBON Workshop to construct our implementation plans to respond to the following new needs to the biodiversity observations: (1) Developing national BONs and networking them in the region to contribute to CBD Aichi Biodiversity Targets and post 2020 Global

Biodiversity Framework, (2) Filling observational and knowledge gaps for biodiversity status and trends to contribute to IPBES assessments, (3) Producing data and knowledge to address the issues particularly related to biodiversity and ecosystem sustainability by coordinated activities with GEO and AOGEO, (4) Contributing to achievements of SDGs by providing adequate and defensible biodiversity data that help developing policy for conservation and sustainable use of biodiversity, and (5) Learning and sharing the challenges of biodiversity issues under COVID-19 pandemic and on-going climate change.

### 12<sup>th</sup> APBON Workshop organizing group:

Hiroyuki Muraoka (Gifu University, Japan), APBON Co-chair  
 Runi Anak Sylvester Pungga (Forest Department Sarawak, Malaysia), APBON Co-chair  
 Yongyut Trisurat (Kasetsart University, Thailand), APBON Co-chair  
 Tetsukazu Yahara (Kyusyu University, Kyusyu Open University, Japan)  
 Sheila Vergara (ASEAN Centre for Biodiversity, Philippines)  
 Eun-Shik Kim (Kookmin University, Korea)  
 Yayoi Takeuchi (National Institute for Environmental Studies, Japan)  
 Masahiro Nakaoka (Hokkaido University, Japan)  
 Takehisa Yamakita (JAMSTEC, Japan)  
 Yuichi Kano (Kyusyu University, Japan)  
 Shin Nagai (JAMSTEC, Japan)  
 Alice Hughes (Xishuangbanna Tropical Botanical Garden, China)  
 APBON Secretariat: Yusuke Saito, Misumi Hirano (Biodiversity Center of Japan, Ministry of the Environment Japan)

### Program of the day

*(Note that the time is in Japan Standard Time)*

10:00 – 10:15 JST (UTC +9)	<p><b>Welcome and opening remarks [Moderator: Mr. Yusuke Saito, MoE Japan]</b></p> <ul style="list-style-type: none"> <li>• APBON Co-chairs (Hiroyuki Muraoka, Yongyut Trisurat, Runi Anak Sylvester Pungga)</li> <li>• APBON Secretariat Director-General (Mr. Hideaki Matsumoto, MoE Japan)</li> </ul> <p><b>Reviewing APBON’s Strategic plan to 2030 and objectives of this workshop</b> (Hiroyuki)</p>
10:15 – 12:00 JST	<p><b>I. Development of BON and its contributions to society [Moderators: Yongyut Trisurat, Runi Anak Sylvester Pungga]</b> [20 minutes presentation + 5 minutes Q&amp;A]</p> <ol style="list-style-type: none"> <li>1. CBD post 2020 Global Biodiversity Framework (Mr. Basile van Havre, Canadian Wildlife Service)</li> <li>2. GEO BON’s next plans (Prof. Andrew Gonzalez, Co-chair of GEO BON)</li> <li>3. Progress on Aichi Targets in Hindu Kush Himalaya (Dr. Sunita Chaudhary, ICIMOD)</li> <li>4. Status and challenges in the Pacific (Dr. Yimnang Golbuu, CEO, Palau International Coral Reef Center)</li> </ol>
12:00 – 12:05 JST	<b>1<sup>st</sup> Photo session</b>
12:05 –	<b>Break</b>

12:30 JST			
12:30 – 13:30 JST	<p><b>II. Updates of BONs in the region</b> [Moderators: Sheila Vergara, Hiroyuki Muraoka] [5 minutes for each]</p> <p>ASEAN Centre for Biodiversity (Christian Elloran)          China (Sino BON) (Xiaojuan Feng)          Indonesia (Dedy Darnaedi)          Japan (JBON) (Yayoi Takeuchi)          Korea (KBON) (Chan-Ho Park)          Malaysia (Zarina Sebli)          Nepal (Mangal Man Shakya)          Philippines (tbd)          Thailand (Yongyut Trisurat)</p>		
13:30 – 13:45 JST	<b>Break</b>		
13:45 – 15:30 JST	<p><b>III. Breakout group sessions – terrestrial, freshwater and marine working groups</b>          Following points would be considered in the Working groups.</p> <ol style="list-style-type: none"> <li>1. Planning observations and data integration (master site concept, on-going/future projects, “Indicators” of SDGs, etc.)</li> <li>2. Data base, information platforms (for science community, user community)</li> <li>3. Capacity building</li> <li>4. Challenges under and post COVID-19 pandemic</li> <li>5. Contribution to AOGEO (IPS; cross-cutting theme; knowledge sharing from biodiversity-related issues)</li> <li>6. Cooperation with GEO BON</li> </ol>		
	<p><b>Terrestrial</b> [Moderator: Yayoi Takeuchi]</p> <ol style="list-style-type: none"> <li>1. Emerging biodiversity issues under the COVID-19 pandemics. The COVID-19 pandemic and the subsequent lockdown would bring both positive and negative impact for biodiversity conservation. In this session, we review the emerging biodiversity issues under the COVID-19 pandemics in AP region and discuss our future direction for robust biodiversity conservation to prevent future crises. Introduction: Yayoi Takeuchi Speaker1: Alice Hughes Speaker2: Mangal Man Shakya</li> <li>2. Master site plan Long-term, periodic and multidisciplinary observations are essential for detecting the impacts of environmental and societal changes. We will discuss the concept of “master site plan”. Speaker3: Hiroyuki Muraoka</li> </ol>	<p><b>Freshwater</b> [Moderator: Yuichi Kano]</p> <p>Recent status of freshwater fish biodiversity study / practice in the Monsoon Asia</p> <ol style="list-style-type: none"> <li>1) Yuichi Kano "Let's make 3D models of fish specimen by the photogrammetry"</li> <li>2) Kenzo Utsugi "Necessity of reference, voucher specimen and parataxonomist for biodiversity monitoring"</li> <li>3) Chaiwut Grudpan "Diversity and ecology of fish in the Thai-Mekong Region with the impact of Modernized in LMB region"</li> </ol>	<p><b>Marine</b> [Moderator: Masahiro Nakaoka]</p> <ol style="list-style-type: none"> <li>1. Organization of AP-MBON (=AP-BON Marine Group) membership and committee</li> <li>2. Introduction of ongoing research projects (should be endorsed by AP-MBON) (i) JSPS-Kakenhi project on seagrass and mangrove (PI: Nakaoka) (ii) JST Core-to-core project on eDNA in mangrove ecosystems (PI: Prof. Kajita, Univ of the Ryukyus) (iii) Others</li> <li>3. Data Management (in relation to OBIS)</li> <li>4. Contribution to GEO, AOGEO, GEOBON, MBON, UN Decade of Ocean Sciences and other related ocean activities</li> <li>5. Capacity building (International Field Training Courses, etc.)</li> <li>6. Outreach activities and other issues</li> </ol>

15:30 – 16:00 JST	<b>Break</b>
16:00 – 18:00 JST	<b>IV. Engagement, networking and actions for 2021</b> [Moderators: Runi, Yongyut, Hiroyuki] <ol style="list-style-type: none"> <li>1. Key Biodiversity Areas (Dr. Andrew Plumptre, Head, Key Biodiversity Area Secretariat) [20 min presentation + 5 min Q&amp;A]</li> <li>2. Reporting breakout group session outcomes [10 minutes x 3 groups]</li> <li>3. AOGEO – Integrated Priority Studies, contributions to GEO Engagement Priorities, collaboration with other Task Groups [20 minutes]</li> <li>4. Plans for APBON activities in 2021 [40 minutes]             <ul style="list-style-type: none"> <li>• APBON’s contribution to GEO BON, KBA, IPBES and other organizations</li> <li>• New APBON book</li> <li>• Participation to 13<sup>th</sup> AOGEO symposium (March 3 - 5, 2021)</li> <li>• Next APBON Workshop</li> </ul> </li> </ol>
18:00 – 18:15 JST	<b>Closing remarks [APBON Co-chairs]</b> <b>2<sup>nd</sup> Photo session</b>

### Key information of our network

APBON ( <http://www.esabii.biodic.go.jp/ap-bon/index.html> )

AOGEO ( <https://aogeo.net/en/> )

Biodiversity Center of Japan ( [http://www.biodic.go.jp/index\\_e.html](http://www.biodic.go.jp/index_e.html) )

GEO BON ( <https://geobon.org/> )

CBD ( <https://www.cbd.int/> )

GBIF ( <https://www.gbif.org/> )

ILTER ( <https://www.ilter.network/> ) (currently under reconstruction)

IUCN ( <https://www.iucn.org/> )

Key Biodiversity Areas ( <http://www.keybiodiversityareas.org/> )

## Invited Keynote Speakers

### Session I-1

#### Mr. Basile van Havre



Basile van Havre is co-Chair of the Convention on Biological Diversity's (CBD) Open-Ended Working Group to develop the post-2020 Global Biodiversity Framework.

At the CBD 14<sup>th</sup> Conference of the Parties in November 2018, Mr. van Havre and his Co-Chair, Francis Ogwal (Uganda), were elected by CBD Parties to Co-Chair and oversee a Party-driven process to develop the new post-2020 Global Biodiversity Framework. They will co-chair a series of three all-Party meetings of the CBD post-2020 open-ended working group in Kenya, China, and Colombia between 2019 and 2020. These global discussions will explore options for a new post-2020 Global Biodiversity Framework with a 2050 Vision, 2030 Mission, and associated Goals and Targets for CBD Parties to implement domestically. CBD Parties will then deliver a draft post-2020 Global Biodiversity Framework for agreement at the CBD's 15<sup>th</sup> Conference of the Parties in China in October 2020.

As Mr. van Havre's current focus is exclusively on his Co-Chair role, he has vacated temporarily his function as Director General of the Biodiversity Policy and Partnerships Directorate at the Canadian Wildlife Service of Environment and Climate Change Canada in the federal Government of Canada. In that role, he provided horizontal coordination of biodiversity issues of national concern on both international and national scales. He led on international engagement on biodiversity issues at the CBD, Convention on International Trade of Endangered Species (CITES), International Union for Conservation of Nature (IUCN), Conservation of Arctic Flora and Fauna (CAFF), and other international biodiversity related fora. On the national side, his team was responsible for the domestic implementation of the Global Biodiversity Framework through national engagement with Indigenous Peoples, provinces and territories.

Mr. van Havre has also chaired the CITES Elephant working groups and CBD discussions on Indigenous knowledge and repatriation.

Prior to his roles as Co-Chair and Director General, Mr. van Havre was the Director of Population Conservation and Management in the Canadian Wildlife Service for nearly a decade. He was responsible for migratory birds, CITES, provision of Secretariat of the Committee on the Status of Endangered Wildlife in Canada, and coordinated polar bear issues for Canada.

Prior to his work at the Canadian Wildlife Service, Mr. van Havre has over 26 years of experience working at Environment and Climate Change Canada. His experience includes, being a Co-Chair for the International Joint Commission Great Lakes Water Quality Board; Director, at the Meteorological Service of Canada, Operations Ontario; administrator for the Canada-Ontario Water Monitoring Agreement; and managed the weather information delivery services where he was responsible for national service delivery that provided national leadership on service issues, intellectual property and the cost recovery policy.

In addition to his federal experience, Mr. van Havre has also worked in the oil exploration industry in Africa and the Middle East and co-authored several publications related to international wildlife management focusing on value systems and institutions.

Mr. van Havre holds a Bachelor of Applied Sciences in Geological Engineering and a Master's in Business Administration from the l'Université Laval.

## Session I-2

### Professor Andrew Gonzalez

Andrew Gonzalez is Professor, Liber Ero Chair in Biodiversity Conservation, in the Department of Biology, McGill University. He is Fellow of the Royal Society of Canada. He is the co-Chair of the Group on Earth Observations Biodiversity Observation Networks (GEO BON) an international network is dedicated to improving biodiversity monitoring, including the acquisition, coordination and delivery of biodiversity observations to decision makers and the research community. He is the founding Director of the Quebec Centre for Biodiversity Science a large research network of more than 120 researchers and 800 trainees in Canada.

He has published more than 150 papers, many in the leading journals of the field, including *Nature* and *Science*. He is an ISI highly cited researcher (2019 and 2020) - a distinction given to the top 0.1% of the world's researchers, across 21 research fields. His major research interests include: 1) the causes and consequences of biodiversity change, 2) rapid evolution and the maintenance of biodiversity in anthropogenic environments, and 3) the application of network science to the conservation of biodiversity at large scales.

He was member of the Executive Council of the Canadian Society for Ecology and Evolution, and member of the Expert Panel on Biodiversity Science for the Council of Canadian Academies in 2010. He has spoken at TEDx and the World Economic Forum in Davos. He is co-founder of the environmental consultancy and spin-off company eco2urb.

## Session I-3

### Dr. Sunita Chaudhary

Dr. Sunita Chaudhary is an Ecosystem Services Specialist at International Centre for Integrated Mountain Development. Dr. Chaudhary is responsible for research, policy inputs, capacity building and advocacy of evidence-based policy for sustainable development of Hindu Kush Himalaya.

Dr. Chaudhary has a PhD from Macquarie University, Australia; MSc in Management of Protected Areas, Austria; Bachelor in Forestry, Nepal; and a graduate certificate leadership program from the University of Hawaii, USA.

Dr. Chaudhary is an established forester with almost a decade experience on natural resources management in Hindu Kush Himalaya region.

## Session I-4

### Dr. Yimnang Golbuu



Dr. Yimnang Golbuu is the CEO at the Palau International Coral Reef Center. In 2012, he received a commendation by the Palau National Congress for his contributions to the sustainability of Palau's natural resources. In 2013, he was awarded a Pew Fellowship in Marine Conservation. He has served as a board member of Palau Conservation Society, Chairman of the Northern Reef Management Planning Team and Chairman of the Protected Areas Network Technical Committee and Vice President of the International Society for Reef Studies. Presently, he is a Member of the Northern Reef Co-Management Committee, the Palau National

Commission of UNESCO, Palau National Marine Sanctuary Executive Committee, and Palau's Point of Contact (POC) for the US Coral Reef Task Force.

Yimnang received his B.S. in Biological Sciences from the University of California at Davis, M.S. in Biology from the University of Guam and Ph.D. in coral reef ecology at Southern Cross University in Lismore, Australia.

## Session IV-1

### Dr. Andrew J. Plumptre

Head of the Key Biodiversity Areas Secretariat, c/o BirdLife International (2018-Present)

Dr. Andre J. Plumptre is a tropical forest ecologist with experience in managing conservation programmes across the African continent, particularly focusing on the use of science to guide management action by protected area managers. Has been involved in building African capacity through training programmes and established a grants programme for MSc and PhD studies for African nationals. Established more than 10,000 km<sup>2</sup> of protected areas in the Albertine Rift in three Key Biodiversity Areas. Raised funding for conservation programmes totaling over \$35 million USD.

Dr. Andre J. Plumptre has work experience in many countries including UK, Rwanda, Uganda, Burundi, Democratic Republic of Congo (DRC), Cameroon, USA. Some experience in Tanzania, Zambia, Kenya, Madagascar, Burundi and Panama.

Professional career:

2018-Present: Head Key Biodiversity Areas (KBA) Secretariat, c/o BirdLife International but representing all 13 institutions of the KBA Partnership. The position supports the KBA Committee to implement a plan for the identification, monitoring and conservation of Key Biodiversity Areas for all taxa of animals, fungi and plants across the World. As such it aims to identify the most important sites on the planet for the persistence of biodiversity. In this role I am working with governments and their conservation partners to establish KBA National Coordination Groups, supporting the development of tools to help with the identification of KBAs, implementing a 7 year strategic plan developed with the KBA Partners, reviewing and confirming proposed KBAs, and promoting the KBA Programme at international fora, with donors and governments to raise awareness of the value of KBAs for the achievement of the CBD biodiversity action plan and the Sustainable Development Goals

2016-2018: Senior scientist, Africa Program, Wildlife Conservation Society, based in Cambridge, UK. In this role I helped oversee and support science in WCS's field programs across the African continent, supporting linkages between university scientists and field programs.

2000-2016: Director of the Albertine Rift Programme and Uganda Country Director of the Wildlife Conservation Society (WCS) based in Kampala, Uganda. As director of the regional Albertine Rift programme I oversaw projects in Uganda, Rwanda, Burundi and eastern DRC with collaboration with the WCS programme in Tanzania, Rwanda and DRC. In Uganda I established a new country programme for WCS and built up a strong cadre of Ugandan conservation scientists who took over management of the programme.

1997-2000: Wildlife Conservation Society Assistant Director for Africa based in New York City. Planning and oversight of 100 projects across Africa, ranging from small research projects to community participative management projects and management of protected areas.

1991-1997: Research Officer at Oxford University, UK funded by ODA. Director of the Budongo Forest Project Research Station (now Budongo Conservation Field Station) in Uganda. Work focused on improving selective logging practises in a Uganda's primary timber forest, to reduce logging impacts on wildlife.

1988-1991: Doctoral Research on the impact of large herbivores on mountain gorillas in the Virunga Volcanoes, Rwanda – Bristol University, UK.